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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,867	03/06/2007	Sammo Cho	51876P1082	7120
8791 DIAKEIV SC	7590 11/29/2007	EXAMINER		
BLAKELY SOKOLOFF TAYLOR & ZAFMAN 1279 OAKMEAD PARKWAY			NGUYEN, NGA X	
SUNNYVALE, CA 94085-4040			ART UNIT	PAPER NUMBER
			3662	
			MAIL DATE	DELIVERY MODE
			11/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/580,867	CHO ET AL.			
Office Action Summary	Examiner	Art Unit			
	NGA X. NGUYEN	3662			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on  2a) ☐ This action is FINAL. 2b) ☑ This  3) ☐ Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 24 May 2006 is/are: a) Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction  11) The oath or declaration is objected to by the Examiner	☑ accepted or b) ☐ objected to be drawing(s) be held in abeyance. See toon is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) ☒ All b) ☐ Some * c) ☐ None of:</li> <li>1. ☒ Certified copies of the priority documents have been received.</li> <li>2. ☐ Certified copies of the priority documents have been received in Application No</li> <li>3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO/SB/08)</li> <li>Paper No(s)/Mail Date <u>May 24, 2006</u>.</li> </ol>	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claim 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Whitehead (6469663) in view of Kalafus (5877725).

With regard to claim 1 & 3, Whitehead discloses:

- A radio frequency processing means for receiving digital broadcasting signals and converting signals into baseband data (see column 6-7, lines 14-3).
- A decoding means for decoding the baseband data to generate decoded data (see column 7-8, lines 48-3).
- A DGPS information extractor means for extracting the DGPS information from a
   DGPS data which is one of the decoded data (see column 7-8, lines 48-15).

## Kalafus disclose:

- A RTCM104 formatting means for converting the DGPS information into RTCM104 data which is compatible with the DGPS RTCM data input port and outputting the RTCM104 data through the DGPS RTCM data output port (see column 3, lines 9-23).
- A GPS receiving means for receiving the RTCM104 data through the DGPS
   RTCM data input port and computing position of a user based on the RTCM104 data (see column 3, lines 24-42).

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It would have been obvious to modify Whitehead by incorporating the teaching of Kalafus's system to converting the DGPS information into RTCM104 data so as the terminal is enable to perform position information based on RTCM104 data for more accuracy.

With regard to claim 2, Kalafus teaches that the DGPS data output port is a comport for outputting RTCM104 data (See column 7, lines 6-14).

With regard to claim 4, Whitehead teaches the receiver providing geographic information based on the positioning information received from the GPS receiving (see column 13, lines 13-60).

With regard to claim 5, Kalafus teaches that the GPS receiving means independently provides the GPS service (see column 7, lines 1-14).

With regard to claim 6, Kalafus teaches that the RTCM104 formatting means and the GPS receiving are coupled to each other through one of RS-232 serial interface (see column 3, lines 40-43).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NGA X. NGUYEN whose telephone number is 571-272-5217. The examiner can normally be reached on 8:00AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TARCZA H. THOMAS can be reached on (571) 272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NGA X NGUYEN Examiner Art Unit 3662

NXN

THOMAS H. TARCZA
SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3600